# Bulletin

SEPTEMBER 1984

President: Joe Locascio, K5KT \* Vice President: Marty Woll, N6VI \*
Treasurer: Esther Wolf, K86HM \* Secretary: Dan Davitt, N6C6B \*
Directors: Don Bostrom, N6IC; Jim Rafferty, N6RJ; Chris Williams, K66AR \*
Membership: Len Gerardi, NC6H \* Bulletin Editor: George Morris, N6ABM \*

# Next meeting: THURSDAY SEPTEMBER 13 AT 7:30 PM IN THE DWP CAFETERIA

#### SEPTEMBER MEETING

#### HAMS AND THE LAW

Antenna and tower restrictions are among the many legal problems which face today's DXer. These, and other, subjects will be addressed at our September meeting by Jon Gallo, KB6WT, a SCDXC member and an attorney.

# FATHER MORAN, 9N1MM, UNABLE TO ATTEND

Father Moran, 9NIMM, had previously been announced as the speaker for the September meeting. Unfortunately, his travel plans have changed so that he is unable to be in Los Angeles the night of our meeting.

#### RF TEST EQUIPMENT AVAILABLE By Marty Woll, Novi

I have recently acquired a Hewlett-Packard 608-D VHF signal generator and a 415-B swr meter, by poking around swap meets. Although hardly state-of-the-art any more, it all works. One of the things I can do with this setup is measure insertion loss in lengths of coax, relays, switches, filters, etc. and port-to-port isolation in relays and switches, all to within a fraction of a db. I have found this capability very helpful in finding faulty components and evaluating newly acquired ones.

I would like to make this modest

I would like to make this modest test facility available to other club members. If you need to run any of the above-described tests give me a call and I will be happy to arrange a time for you to bring the subject hardware to my house, where we can check it out. Sorry I can't make house calls, but the generator isn't very portable (too big and heavy).

I would also like to encourage other club members to let us know what they might have available in the way of test gear (either at home or readily available at work) by dropping a note to the Bulletin editor. I hope this will spread and become a valuable benefit of membership. By sharing our technical resources we can help improve the quality and effectiveness of our collective stations.

## CONGRATULATIONS TO MARTY WOLL, NOVI

Our congratulations go to Marty Woll. N6VI, Vice-President of the SCDXC, who has recently been admitted as a partner in Coopers & Lybrand, the international firm of certified public accountants for whom Marty has worked since graduating from college twelve years ago. Marty says, "This is really the main goal of my professional career to date. It's hardly easy street - there will be planty of new challenges but I hope to have a little more time for radio once I settle into my new role."

## ENDORSABLE DXCC AWARD FOR 160 METERS

The ARRL Awards Committee, in consultation with the DX Advisory Committee, has approved an endorsable DXCC award for 160 meters, effective November 1, 1984. Contacts since November 15, 1945, may be credited. Previously, the Top Band award was not endorsable. As with the recently implemented endorsable RTTY award, there will be no Honor Roll on 160 meters. This action was precipitated by Board Minute #35 (March 1984) authorizing additional endorsable awards. An endorsable satellite award permitting OSCAR 10 contacts is still being studied by ARRL in conjunction with AMSAT.

## REPEATER WORK IN PROGRESS

The SCDXC repeater has been off the air for the past few days to make some technical modifications to improve operability and flexibility. It is hoped the repeater will be back on the air by the time you receive this month's Bulletin.

#### SCDXC VP MAKES QST COVER

Marty Woll, N6VI, SCDXC Vice President is on the cover of the September issue of QST. He is shown participating in Olympic activities with a handheld.

## A FEW WORDS ABOUT CONTESTING By Warty Woll, Novi

There are those who believe that contesting is an activity separate and apart from DXing and that, accordingly, it should not be the province of the Southern California DX Club. As the recently appointed Southwestern Division member of the ARRL Contest Advisory Committee I would like to come to the defense of contesting and, I hope, change a few minds.

To begin with let's look at a traditional "DX" activity: the morning pile-up. To be successful one must some combination DOSSESS af propagation awareness, equipment and antenna effectiveness and operating skill, and should enjoy going head-towith fellow amateurs in head (usually) friendly competition. successful contester needs all these same qualities. Not much difference here. Now, what does the DXer like to do most? Contact foreign amateurs. There are literally dozens of contests in which you can do just that. The Dier also likes to measure his success by country or band-country or zone count. Gosh! That's just how a contester comes up with his score multiplier. DXers like to see thier call in QST. Contesters get their calls in QST and other amateur publications as often as they wish (i.e., as often as they enter contests). It's starting to sound as though these two activities are very similar, indeed.

What benefits can a noncontesting DXer get from trying a few
contests? For one thing, he gets
enough concentrated on-the-air time to
improve his chances of snagging a
needed country on a needed band.
Those chances are enhanced by the
speed at which contacts are made - you
don't have to wait for some longwinded type to say good bye for
fifteen minutes while the band drops
out. His concentrated on-the-air time
also sharpens his propagation
awareness. And, nothing will point
out the weaknesses in one's equipment,
antenna system and station layout like
some heavy-duty contest operating. A
frequent contest participant has

Continued on page 4

MINUTES OF THE JULY 12, 1984 MEETING By Dan Davitt, NGCGB Secretary, SCDXC

The meeting was called to order at 8:06 PM by Joe Locascio, K5KT, SCDXC President. The evening began with the self introduction of members and guests. Seventy persons were counted in attendance.

Cleyon, AD6P, gave an update on the repeater. The controller is due to be installed this coming week or the next week. The 1Z PL or the "old" PL are DK.

Fried, WA6WZO, gave a report on the Volunteer Examiner Coordinators (VEC) status.

Dave, W6AQ, was announced as the Banquet speaker for the Southwestern Division ARRL Convention in Santa Maria, October 12, 13, and 14, 1984. Tickets are still available from: HAMCON, Inc., Box 2457, Santa Maria, CA. 93455-0457.

Marty, NoVI, read the list of the evening's prizes, and reminded everyone of the Pizza Bash next month at Me & Ed's Pizza in Lakewood. Possibilities for the September meeting are a visit with Father Moran, 9N1MM, and for the November meeting, W6BIP is scheduled to talk on RFI/TVI/VCRI.

Tex, N6AHV, gave his usual, well received, "Rumors Around the Bands."

Gunner, W6Y8/ZS68CZ, gave a slide presentation on the operation from Swaziland. Reported were some 7,000 contacts and 140 countries for this effort.

The raffle tickets were drawn at the close of the meeting and the winners of the prizes were as follows: W6EA, Dual Time digital clock; WA6NLJ, SS-32 PL; KB6HW, Hi-Pass filter; N6CGB, SS-32 PL; N6AHV, SS-32 PL; W84DQH, SS-32 PL; N6FC, SS-32 PL; KB6HW, QST Binder; W6MBV, Coax Seal.

The meeting was adjourned at 9:40

#### SCDXC MEMBERS PARTICIPATE IN OLYMPICS

The following SCDXC members participated in amateur radio support for the Olympic marathons: Chuck Lobb, KN6H; Len Geradi, NC6H, and his XYL Judy, KA6FBI; Chris Conner, NX6U, and his XYL Katy, KA6TLD; Joe Locascio, K5KT; and John Alexander, K6SVL.

Don Bostrom, N6IC, participated in amateur radio support for the Olympic yachting competition.

Marty Woll, N6VI, was the assistant manager of the UCLA Olympic Village amateur radio station.

Chuck Lobb. KN6H, has written a story on the Olympic marathons which will appear in the October issue of Worldradio. MINUTES OF THE AUGUST 9, 1984 MEETING By Dan Daviee, NACGB Secretary, SCDXC

The Annual "PIZZA MEETING" was held at Me and Ed's Pizza on Paramount Blvd. in Lakewood.

Since this was a fun, family, get-together, no Club business was conducted.

The group was called to order at 8:09 PM by Marty Woll, N&VI, SCDXC Vice President. Marty began the meeting by reading a list of the door prizes in anticipation of a large number of ticket sales.

number of ticket sales.

At 8:27 PM. the winning tickets for the evening's top prize was drawn, and the very happy owner of the ICOM IC-02 handheld was our President, Joe Locascio, KSKT.

The winners of the remaining prizes were as follows: KA6QHI, MFJ Dual Time Digital Clock; M6CGB's XYL, Lunar 2-Meter Preamp; W6TZD, Drake Low-Pass Filter; W6VZZ, ARRL Repeater Directory; N6JUO, 6 outlet AC control console; and W6SP, an ARRL Repeater Directory.

The turnout for the evening was 41 persons, 11 being charming YLs! The meeting was adjourned at 9:10

#### SEPTEMBER PROPAGATION PRDICTIONS

The September 15 to October 15 propagation predictions given on page 3 and the September propagation forecast and chart information in the right column are courtesy of CQ magazine. Openings on 160 meters are likely to occur during those times when 80 meter openings are shown with a propagation index of (2) or higher.

#### ACTIVITY REPORT

K6YRA: H50JUA 7/27 1430 14199; FW0BT B7I 0425 14192; H44SH B/1 1400 14186; V856F B/5 1320 14170; 4X4BL B/6 0417 14218; JT1AO 8/6 1427 14227; BY1PK 8/8 0748 14155; BY4AA B/8 0801 14160; XX9DX 8/8 1417 14245; A22CA B/8 1425 14253; 9M2RT (SCDXC member NN6U) B/8 1437 14162; KC7UU/5N6 B/9 0111 14259; LX1TL B/12 1447 14158; ISOCPU B/14 0007 14197; T59XL6 B/16 0314 3906; YBOARA B/17 1352 7076; ZP5JCY B/19 1015 3795; DU9RG B/19 1025 3797; U50K 8/22 0422 14190; UL7EZ B/23 0311 14174; UL8CWI B/23 0311 14174; RIBBB 8/23 0329 14224; UF6RB B/23 0355 14225. All contacts are SSB.

#### FOR SALE:

1) Hy-Gain 204BA, 4 element 20 meter monobander, good condition, \$125.
2) Hy-Gain 3 element 15 meter modified (wide spaced), excellent condition, \$85.
Contact AI, K6YRA.

#### LAST MINUTE FORECAST

Day-to-Day Conditions Expected for September 1984

	Expe	cted Sig	nal Qu	Quality (1)
Propagation Index	(4)	(3)	(2)	(1)
Above Normal: 2, 13, 21	A	A	В	С
High Normal: 3, 11-12, 18, 22, 28-29	A	8	С	C-D
Low Normal: 1, 4, 8-10, 14, 17, 19-20, 25-27, 30	A-B	B-C	C-D	D-E
Below Normal: 5, 7, 15-16, 23	B-C	C-D	D-E	E
Disturbed: 6, 24	C-E	D-E	E	E

Where expected signal quality is: A - Excellent opening, exceptionally strong, steady signals greater than S9.

- B—Good opening, moderately strong signals varying between S6 and S9, with little fading or noise.
- C—Fair opening, signals between moderately strong and weak, varying between S3 and S6, with some fading and noise.
- D—Poor opening, with weak signals varying between S1 and S3, and with considerable fading and noise.
- E-No opening expected.

#### **HOW TO USE THIS FORECAST**

- Find propagation index associated with particular band opening from Propagation Charts appearing on the following pages.
- 2. With the propagation index, use the above table to find the expected signal quality associated with the band opening for any day of the month. For example, an opening shown in the charts with a propagation index of 3 will be good-to-fair (B-C) on the 1st, excellent (A) on the 2nd, good (B) on the 3rd, good-to-fair (B-C) on the 4th, etc.

# HOW TO USE THE DX PROPAGATION CHARTS

- 1. Use Chart appropriate to your transmitter location. The Eastern USA Chart can be used in the 1, 2, 3, 4, 8, KP4, KG4 and KV4 areas in the USA and adjacent call areas in Canada; the Central USA Chart in the 5, 9 and 0 areas; the Western USA Chart in the 6 and 7 areas, and with somewhat less accuracy in the KH6 and KL7 areas.
- 2. The predicted times of openings are found under the appropriate meter band column (15 through 80 Meters) for a particular DX region, as shown in the left hand column of the Charts. An \* indicates the best time to listen for 160 meter openings.
- 3. The propagation index is the number that appears in () after the time of each predicted opening. The index indicates the number of days during the month on which the opening is expected to take place as follows:
  - (4) Opening should occur on more than 22 days
  - (3) Opening should occur between 14 and 22 days (2) Opening should occur between 7 and 13 days
- (2) Opening should occur on less than 7 days (1) Opening should occur on less than 7 days Refer to the "Last Minute Forecast" at the beginning of this Propagation column for the actual dates on which an opening with specific propagation index is likely to occur, and the
- signal quality that can be expected.

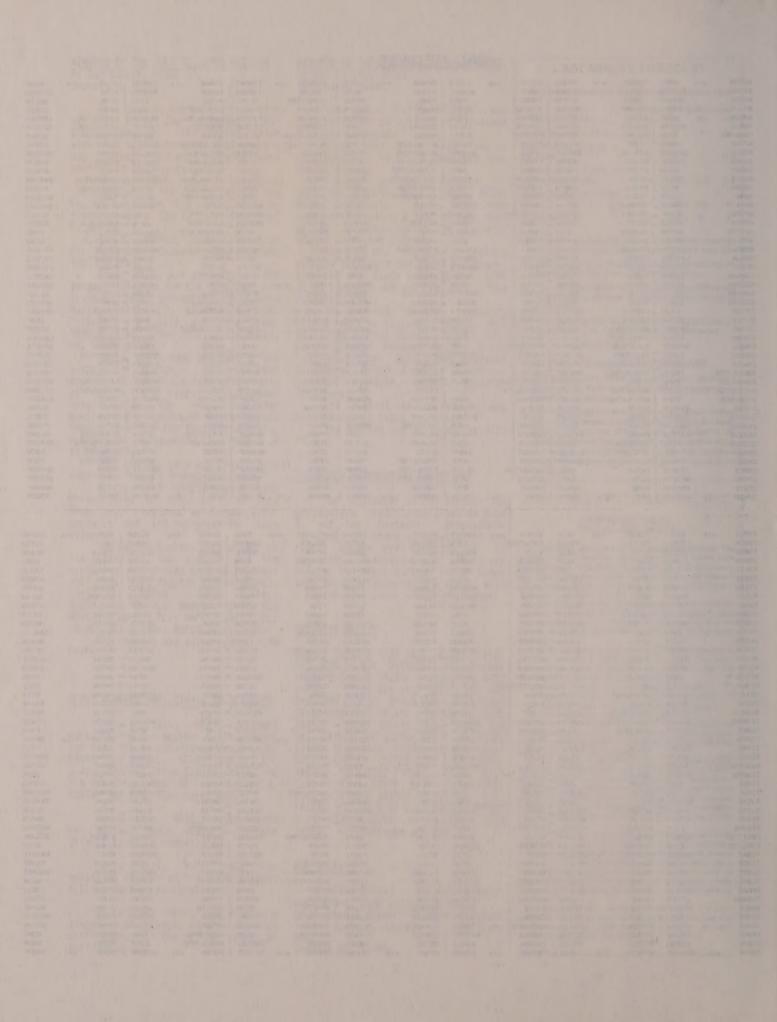
  4. Time shown in the Charts are in the 24-hour system, where 00 is midnight; 12 is noon; 01 is 1 A.M., 13 is 1 P.M., etc. Appropriate daylight time is used not GMT. To convert to GMT, add to the times shown in the appropriate chart 7 hours in PDT zone, 6 hours in MDT zone, 5 hours in CDT zone, and 4 hours in EDT zone. For example, 14 hours in Washington. D.C. is 18 GMT. When it is 20 hours in Los Angeles, it is 03.
- GMT, etc.

  5. The charts are based upon a transmitter power of 250 watts c.w., or 1 kw, p.e.p. on sideband, into a dipole antenna a quarter-wavelength above ground on 160 and 80 meters, and a half-wave above ground on 40 and 20 meters, and a wavelength above ground on 15 and 10 meters. For each 10 db gain above these reference levels, the propagation index will increase by one level; for each 10 db loss, it will lower by
- one level.

  6. Propagation data, contained in the Charts has been prepared from basic data published by the Institute For Telecommunication Sciences of the U.S. Dept. of Commerce, Boulder, Colorado, 80302.

# QSL UPDATE

							2011	OI DIE	-								
A229M vi	a NAFD	, CP6,DX	vie	DK3HL	, ET3PS	via	DJ928	, H44SA	via	AD1S ,	IPSARU via	IT9FWD .	, KG4AW via	KA4TAY	OY1R	via	W2KF
A35H0	ZL1AXU	CSØBI		CT4LW	FEHIF	V 1.0	WA4VDE	H44SH	*10	AD1S	ISECPU	ISEWON	KG4DX	W82CPV	DY7A	410	LASPCA
A35SA	JN1MGP	CSMRS		CT1YH	FBBWJ		F8RV	H44U		H440X	DL7HZ/ISØ	DL7HZ	KHBAC	K7ZA	OYBR		MEIIM
A4XJQ	G4MSX	CS1 BWY		WD4HRO	FCØCQZ		DK5KC	HSAND		ZS6BCR	IT84KFQ	1T9ZGY	KD7P/KH2	KS7L	OY9R		KZIJL
A40CJW A6XJC	N4WF WB3CQN	CS1SL CS5SRL		CT1SL CT1AHU	FG8HAS FG81HU		F2VX	H5AYB HBØCBJ		KS6BCR D.(180	ITBATOH	ITOTOH I	MH6B/KH4	OF68VG KH6VR	DZ1FFG/DY		LASVAA
KGUA/A6	KGUA	CS7MH		CT4NH	FGBIIK		F6EYS K2KTT	HBADOX		DJ1BP HBSAHC	IT84VDQ DL7HZ/IT84	DL7HZ	KH6XX	MSHWK	0Z5UR/0Y		OZ1FFG OZ5UR
A71BK	G4HNP	CTØBI		CT4UW	FG7CK		FG7BT	DA1WA/HBB		DUBLE	ONSNT/ITB4	ON7SK	KH6JEB/KH7	KH6JEB	OZBAE/OY		OZBAE
AB2LC	SM4CWY	CT1CSN		MA3HUP	FHBCL		WA4VDE	DF4GV/HBB		DF4GV	IY4FGM	I4IKW	KH6LW/KH7	KH6JEB	P296C		VK2BSM
A9200	KZIJL	CT2AK		M3HNK	FKBAL		F6EWK	DF7XA/HBØ		DF7XA	JSBDb /	F2GA	N2EDQ/KH7	KHGJEB	P29NBF		KEUJV
A92DY	MBLU	CT2C0		W1 RM	FK8AU		IMPU	DL8G8H/H8		DL868H	J580X	F1CFD	WH60/KH7	KHEVR	P42J		WIKDD
A92EB	KELST	CT20L		KE40C	FMØFJD		W2GHK	ON 4UBA/HB		DH7JF	J28/DX	F1CDA	VE7BBC/KH8	VE7CXX	PARVDV/PJ		PARVOV
A92NH AHBA	M8LTh	CT2FN CT3TR		F6BCW	FMEHTR E FM7CL		F6BEE	ON5NT/HBB z. Ka7awk/HB		DN7FK   WB7NZI ==	J37AH	MSGHK	VE7LB/KH8	VE7LB	WIBIH/PJ2		W1KD0
AHIA		H OH1MA/CT	3		H FM7WD			HC1EA	N.	W2KF H		WB2LCH =	E AH3AA/KH9	WIISD 2	KASIBG/PJ	A	MB5FCH
AP2SQ		E CUTXKA			FY7YE/FM7	7		HC10T		MSKE H			AD8J/KP2		WIAEL/PJ4		WIAEL
AP2ZA	WENLE	m CXSEL			w FORAM			HG19HB		HASKKG W			K5NA/KP2		K3UOC/PJ6		K3UOC
AX1ITU		□ CX388H		AC2J,	⇒ FOØFB		WB6GFJ ,	⊒ HG5A			N6DX/J3	NGDX	A KAGNOR/KP2	KAGNOR -	KR4C/PJ7	100	KR4C
AX9ITU		₩ CXC3BR			- FORTLE			HH2VP		WIFJ ~		SV1JG -			NC4U/PJ7		NC4U
BVBAA		D CX4AAU			⇒ FOØKI			S K2OXS/HH2		MEGOG P		W2GBX =		WB4PRU =			PY1DFF
BABTY		CX5B0			FOBOF		WB6GFJ /			MBSTCH W	JELT	MSTTX *	KX60I	VK9NS #	PUSAAF		PT7WCJ PY1MDX
CSEAAN	DLBOH	× CX5C0			× F08F0			HIBLE		W2KF K	.173AR	KF4UP >	KXBOR X	AD1S	RØK		UABKCL
C3ØBBA vie		CX6CP	via		F08GW	via	KEFM	3	via	MBSTCH 0	J73D via	M508 c	LF7R via	LATHCA "	2	ia	UK1ZAA
CSELAV	ET3CTE	CX7BY		WEIJN	□ FO8HI			K20A/HIB		KBDHK G		MSGBX C		LAZZN C	RLEG		UL7QF
C3ØLBK		zz CXSAU			z FOBHL		WB6GFJ :	E HKØBKX		₩840FH ×			z LU1JTA	LIJ4JJ 2			UP18Z0
C31BD		< CY#SPI		VE1ASJ .				< HKBHEU			F6HDX/J8		C DL5MBO/LX	DL5MBO -			UK1ADZ
C31KI C31NP		₩ CZ3PCA		VESDZE ,				HL1CG			K7RLS/J8	K7RLS -			379MC		AK3F
C31WX					KA1CI/FP			n HL1SF → HL50C		JH6YBW W		IESDYC -	WB2MOQ/QA4	KCBJH +	COSDCA		DK2IF LA4DCA
C53CC	WA 4VDE	KB1Y/DU2		KARHEB	WICCN/FP			HL90X		NSDBB	JD1YAA	JA1WU	005A0	FØDOA	SPEDIXC		SP7KTE
C530U	DJ6SI	C KK7K/DU2		WB7NOB S	FROHIF		WA4VDE	HLSFY		KCBLG C	JTHAPE	UK3ABO	005F8	WAZDAU _	TLBGE/STE		F6FYD
C5AEG	HODE IT	M6IUF/DU2	2	K9URA	FR78P		WEAX	HL9JT		NSVEM Z	TORT	I BYGZ	005LT	KA2BZS	ST2SA		DJ9Z8
KEGVB/C6A	KOUVD	WASPWL/DU	15	MARIEL	FR7DB		FOHMA	HESHL		KCBLE C	JT1A0	W7PH0	005LX	SMEDJZ	5N10L/SU		NEAFW
K5MM/C6A	K5HH	DU6RH		W7PHI	FGØBK7/FS		F6AJA	HL9SN		KA5EPI -	JT1BR	BURO	005SH	WASHUP -	KA4BSE/SU		WB1660
N4JTE/C6A N5RM/C6A	N4JTE N5RM	WB5LBJ/DU		W7HPI W7HPI	FGØIHU/FS FV6PAX	1	F6EYS F8B0	HL9TA HP1XXD		WBSHXO	JW5VAA JW6NY	LA4YW LAGMY	DE3FAC DE3YHU	WB2LCH	WD5AJE/SU SVØDC		WB1GGQ KA6ZDY
CEBAE	WASHUP	DU7XX	,0	DUGJM	FY9IS		FY7AN	W9KU/HP1		NSAVY	JW6VDA	LASHH	OHEAM	OH29H	SV1RP		SVINA
CERFCH	WB6WOD	DX7DX		DUGJM	G3EJH		WA4VDE	HR1DAP		KBCC	JX5FZ	LA7SO	OHEIAP	OH1PA	SV5RW		AN3EF
CENGBL	WB3CQN	EABSK		DJ1KM	GBØDCC		GECW	HR5SB/HR2		WBENZB	JY3ZH	DJ9ZB	OHUBBA	OH2BAZ	SV7JJ		M3HNK
CENZIA	KATILA	EASNW		EA4BGL	GBØWPX		G4IAR	HS1BV		KO2A	dY4MB	WA4HNL	OH1 LW/OHB	DH1 LW	DF4RD/SV9		DF2R6
CE3DPD	F5IL	OH2BH/EA9	3	OH5BH	G82Z00		ensm	HS4AMS		W7PJ0	JY8C0	WB3CQN	WSK5/OHB	K5TU	KABCYR/SV	9	WB4TDB
CNBAD	FBJL	EH3IYU		EA3A0C	GB4ANT		G4ANT	HZ1AB		KBPYD	JYSAA	WA3HUP	ONGWO	M56BX	KNBM/SV9		KBCW
CNBCC CNBCX	F6FNU HB9AGH	EL2AG EL2AV		WA4VDE NGFL	DF3GX/GU4		DF3GX	128VS/ID8 12DMK/ID8		I 2MOP	JY9RA JY9TS	DLBRA WA3HUP	ONSIC OXC3GH	W2GEX WA2TTI	SVBDF/SV9 T2RAA		JA2VUP
CP6HK	WB4LFM	EL7W		K4SE	GUSCIA		NSMA	I 2NYN/IDB		12MOP	KC4AAA	KSAUB	OX3LY	WISHNK	TERTY		JA2VUP
CP6IF	WB4LFH	EL9B		KD4ZS	H31LR		HP1L	IDBNKN		1 BNKN	KC6HA	KEEDV	OX3SG	LASNH	TZYKC		JA2VUP
CP6IM via	WB1DQC		via	UA4LM .		via	H44DX	IPBONU	via	IBNEI	KC6RN via	JH1RNZ	OXSRJ via	WA1FSV I	TBEAC	via	KEEDV
							11-1-1021										
			***		7.		714-07										
			***	•	7		387 - 18										
TOMAT	CACED									M004	PDE IAL	MOOA	Eugen	NE 704	00.754		IEODAG.
T38AT via	G4GED	, TU2JD	via	AK3F	, VP2KH	via	WAGZEF	, YB3DC	via	KOZA .	ZP5.JAL via	K02A	5H3FG via	VE70N	80.7XA	via	JE2PXG
ТЗИСН	WSSLT	TUSTE		AK3F F6ESH	VP2KM K4FW/VP2K	via	WA6ZEF K4FW	YB3DC YB5ASO	via	W488P	ZP5JCY	LUSOPM	5H3HS	DKBMZ	9A1C	via	12VGZ
	W9SLT G8LGB	TU2JD TU2LE TU7H		AK3F F6ESH AK3F	VP2KH K4FW/VP2K VP2M	via	WA6ZEF K4FW W82LCH	YB3DC YB5ASO YC1GJ	via	W488P W2G8X	ZP5JCY ZP5PX	LU8DPM W3HNK	5H3HS 5H3LB	DK8MZ SM5CPC	9A1C 9G1LA	via	12VGZ N1AGK
T3ØCH T3Ø0B	WSSLT	TUSTE		AK3F F6ESH	VP2KM K4FW/VP2K	via	WA6ZEF K4FW	YB3DC YB5ASO	via	W488P	ZP5JCY	LUSOPM	5H3HS	DKBMZ	9A1C	via	12VGZ
T3ØCH T3ØDB T3ØRN T31AT T32AB	W9SLT G8LGB JH1RMZ	TU2JD TU2LE TU7H TU7I		AK3F F6ESH AK3F AK3F	VP2KH K4FW/VP2K VP2H VP2HDG	via	WA6ZEF K4FW WB2LCH W6FDG	YB3DC YB5ASO YC1GJ YJØAIM	via	W488P W2GBX WB6RHE	ZP5JCY ZP5PX ZP5XDW	LUSDPH W3HNK N4DW	5H3H5 5H3LB 5H3OJ	DKBMZ SM5CPC 5Z4DP	9A1C 9G1LA 9H1CE	via	12VGZ N1AGK W2KF
T3#CH T3#DB T3#RN T31AT T32AB T32AD	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED	TU2JD TU2LE TU7H TU7I T26CY U1NV U2ANN		AK3F F6ESH AK3F AK3F NBUS UZ1NWO UC1AWW	VP2KM K4FW/VP2K VP2M VP2MDG VP2MIX VP2MKY VP2MLD	via	WAGZEF K4FW WB2LCH WGFDG WBIJN KY5R WB2LCH	YB3DC YB5ASO YC1GJ YJØAIM YJØAKG	via	W488P W2GBX WB6RHE VK4I0B JL1KDX F6GXB	ZP5JCY ZP5PX ZP5XW ZS1CT ZS3HL ZV2BW	EUBDPM W3HNK N4DW DL2HY KE1A PT2BW	5H3HS 5H3LB 5H3OJ 5H3OM 5H3RF 5H3TC	DK8MZ SM5CPC 5Z4DP VE70M SMBEA0 VE3DLV	9A1C 9G1LA 9H1CE 9H1EL 9H3B 9H3CB	via	12VGZ N1AGK W2KF LA2JO W2GBX G4PPK
T3BCH T3BDB T3BTN T31AT T32AB T32AD TA1AS	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJØOC	TU2JO TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK		AK3F F6ESH AK3F AK3F NBUS UZ1NWO UC1AWW UC1WWO	VP2KM K 4FW/VP2K VP2MG VP2MIX VP2MKY VP2MLD VP2MN	via	WAGZEF K4FW WB2LCH W6FDG WBIJN KY5R WB2LCH WB2LCH	YB3DC YB5ASO YC1GJ YJØAIM YJØAKG YJØDX YJBGX YJBGX YJBGX	via	W488P W2GBX WB6RHE VK410B JL1KDX F6GXB VK30T	ZP5JCY ZP5PX ZP5QW ZS1CT ZS3HL ZV2BW ZY881	W3HNK N4DW DL2HY KE1A PT2BW PYBBI	5H3HS 5H3LB 5H3QJ 5H3QM 5H3RF 5H3TC 5H3VB	DKBMZ SM5CPC 5Z4DP VE70M SMBEA0 VE3DLV N3DLB	9A1C 9G1LA 9H1CE 9H1EL 9H3B 9H3CB 9H3CB	via	12VGZ N1AGK W2KF LA2JO W2GBX G4PPK 9H1AV
T3BCH T3BDB T3BRN T31AT T32AB T32AD TA1AS TA1MB	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJØOC K2UO	TU2JD TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK U3LKG		AK3F F6ESH AK3F AK3F NBUS UZ1NWO UC1AWW UC1WWO UK3LAC	VP2KM K4FW/VP2K VP2M VP2MDG VP2MIX VP2MKY VP2MLD VP2MN VP2M0	via	WA6ZEF K4FW WB2LCH W6FDG WBIJN KY5R WB2LCH WB2LCH WH2LCH	YB3DC YB5ASO YC1GJ YJBAIM YJBAKG YJBOX YJBOX YJBOT YK1AA	via	W488P W2GBX WB6RHE VK4IOB JL1KDX F6GXB VK3OT DJ9ZB	ZP5JCY ZP5PX ZP5XDW ZS1CT ZS3HL ZV2BW ZY8BI 1Z9A	W3HNK N4DW DL2MY KE1A PT2BW PYBBJ W7PHO	5H3HS 5H3LB 5H3OJ 5H3OM 5H3RF 5H3TC 5H3VB YU3KI/5NØ	DK8MZ SM5CPC 5Z4DP VE70M SM8EA0 VE3DLV N3DLB YU3KI	9A1C 9G1LA 9H1CE 9H1EL 9H3B 9H3CB 9H3CB 9H3CB 9H3CB	via	I 2VGZ N1AGK W2KF LA2JO W2GBX G4PPK 9H1AV G3SLN
T3BCH T3BDB T3BRN T31AT T32AB T32AD TA1AS TA1MB YU3FK/TA1	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJØOC K2UO YU3FK	TU2JO TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK U3LKG U5F00		AK3F F6ESH AK3F AK3F NBUS UZ1NWO UC1AWW UC1WWO UK3LAC UK5FAD	VP2KM K4FW/VP2K VP2M VP2MS VP2MLX VP2MLD VP2MLD VP2MO VP2MO VP2MO	via	WAGZEF K4FW WB2LCH WGFDG WØIJN KY5R WB2LCH WB2LCH WH2LCH W2KF	YB3DC YB5AS0 YC1GJ YJBAIM YJBAKG YJBGX YJBGX YJBGX YJBGX YJBGT YK1AA	via	W488P W2GEX WB6RHE VK4IOB JL1KDX F6GXB VK3OT DJ9ZB VE3OG	ZP5JCY ZP5PX ZP5XDW ZS1CT ZS3HL ZV2BW ZYBBT 1Z9A 3ABAA	LUBDPM W3HNK N4DW DL2MY KE1A PT2BW PYBBI W7PHO IBMWI	SH3HS SH3LB SH3OJ SH3OM SH3RF SH3TC SH3YB YU3KI/5NB SN3RTF	DK8MZ SM5CPC 5Z4DP VE70M SM8EAO VE3DLV N3DLB YU3KI DK2IF	9A1C 9G1LA 9H1CE 9H1EL 9H3B 9H3CB 9H3CB 9H3CB 9H3KO 9K2BE	via	I 2VGZ N1AGK W2KF LA2JO W2GBX G4PPK 9H1AV G3SLN G4GIR
T3BCH T3BDB T3BRN T31AT T32AB T32AD TA1AS TA1MB	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJ#OC K2UO YU3FK W2GBX	TU2JD TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK U3LKG U5F00 U5KDR		AK3F F6ESH AK3F AK3F NBUS UZ1NWO UC1AWW UC1WWO UK3LAC UK5FAD UK5KAA	VP2KM K4FM/VP2K VP2MG VP2MIX VP2MKY VP2MLD VP2MO VP2MO VP2MP	via	WAGZEF K4FW WB2LCH WB5PDG WBIJN KY5R WB2LCH WB2LCH WB2LCH W2KF W2KF	YB3DC YB5A50 YC1GJ YJBAIM YJBAKG YJBOX YJBGX YJBOT YK1AA YN1FI YN1OG	via	W488P W2GBX WB6RHE VK4IOB JL1KDX F6GXB VK3OT DJ9ZB VE3QG VE3JDO	ZP5JCY ZP5PX ZP5DOW ZS1CT ZS3HL ZV2BW ZYBB1 1Z9A 3AMAA 3AMGB	LUBDPM W3HNK N4DW OL2MY KE1A PT2BW PY8BI W7PHO IBMWI W2GBX	5H3HS 5H3LB 5H3OJ 5H3OM 5H3RF 5H3TC 5H3VB YU3KI/5NØ	DK8MZ SM5CPC 5Z4DP VE70M SMBEAO VE3DLV N3DLB YU3KI DK2IF WA4VDE	9A1C 9G1LA 9H1CE 9H1EL 9H3B 9H3CB 9H9HHR 9J2KO 9K2BE 9K2PH	via	I 2VGZ N1AGK W2KF LA2JO W2GBX G4PPK 9H1AV G3SLN
T3BCH T3BDB T3BRN T31AT T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GB	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJØOC K2UO YU3FK W2GBX N8CQ	TU2JD TU2LE TU7H TU7I TZ6CY U1NV U2MZK U3LKG U5F0O U5KDR		AK3F F6ESH AK3F AK3F NBUS UZ1NWO UC1AWW UC1WWO UK3LAC UK5FAD	VP2KM K4FW/VP2K VP2M VP2MS VP2MLX VP2MLD VP2MLD VP2MO VP2MO VP2MO	via	WAGZEF K4FW WB2LCH WGFDG WØIJN KY5R WB2LCH WB2LCH WH2LCH W2KF	YB3DC YB5AS0 YC1GJ YJBAIM YJBAKG YJBGX YJBGX YJBGX YJBGX YJBGT YK1AA	via	W488P W2GEX WB6RHE VK4IOB JL1KDX F6GXB VK3OT DJ9ZB VE3OG	ZP5JCY ZP5PX ZP5XDW ZS1CT ZS3HL ZV2BW ZYBBT 1Z9A 3ABAA	LUBDPM W3HNK N4DW DL2MY KE1A PT2BW PYBBI W7PHO IBMWI	SH3HS SH3LB SH3OJ SH3OM SH3OM SH3TC SH3YB YU3KI/5NB SN9RTF SRBAL	DK8MZ SM5CPC 5Z4DP VE70M SM8EAO VE3DLV N3DLB YU3KI DK2IF	9A1C 9G1LA 9H1CE 9H1EL 9H3B 9H3CB 9H3CB 9H3CB 9H3KO 9K2BE	via	I 2VGZ N1AGK W2KF LA2JO W2GBX G4PPK 9H1AV G3SLN G4GIR 9M2DW
T3BCH T3BDB T3BRN T3BRN T31AT T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GB TABCN TE2TX TE5DX	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJØOC K2UO YU3FK W2GBX N8CQ T12CF T12CF	TU2JD TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK U3LKG U5F00 U5KDR U9Z UA101 UKTPAB		AK3F F6ESH AK3F AK3F NBUS UZ1NWO UC1AWW UC1WWO UK3LAC UK5FAD UK5FAD UK5KAA UA9YEW	VP2KM K4FW/VP2K VP2MOG VP2MIX VP2MKY VP2MLD VP2MN VP2MO VP2MO VP2MPB VP2MPB	via	WAGZEF K4FW WB2LCH WBFDG WBIJN WBYSLCH WB2LCH WB2LCH WBYKF WZKF N3CEX	YB3DC YB5A50 YC1GJ YJBALM YJBALM YJBOX YJBOX YJBOX YJBOX YN1EI YN10G YS1UL YSSRVE	via	W488P W2GBX WB6RHE VK410B JL1KDX F6GXB VK30T DJ9ZB VE30G VE3JDO WABJYJ WABJYJ	ZPSJCY ZPSPX ZPSXDW ZS1CT ZS3HL ZV2BW ZY8BI 1Z9A 3ABAA 3ABAA 3ABAA 3ABAA 3ABAA	LUBDPM W3HNK N4DW DL2HY KE1A PT2BW PY8BI W7PHO IBMWI W2GBX OH2BH F9RM	SH3HS SH3UB SH3OJ SH3OM SH3RF SH3TC SH3YB YU3K1/SNØ SN3RTF SRSAL STSRD	DK8MZ SM5CPC 5Z4DP VE7OM SM8EAO VE3DLV N3DLB N3DLB DK2IF WA4VDE F6IIM F6FNU	9A1C 9G1LA 9H1CE 9H1EL 9H3B 9H3CB 9H3CB 9H3FRR 9J2FKO 9K2BE 9K2PM 9L1FC		12VGZ N1AGK W2KF LA2JO W2GBX G4PPK 9H1AV G3SLN G4G1R 9M2DW WA#CAE
T3BCH T3BDB T3BRN T31AT T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GB TABCN TE-TIX TE-SDX TE-SBG	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJØOC K2UO YU3FK W2GBX N8CQ T12CF T12CF F6CXV	TU2JD TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK U3LKG U5F00 U5KDR U9Z Z UA101 UK2RDX		AKSF F6ESH AKSF NBUS UZ1NWO UC1AWW UC1WWO UKSTAO UKSFAO UKSFAO UKSKAO UKSKAO UKSKAO UKSKAO UKSKAO UKSKAO UKSKAO UKSKAO	VP2KM K4FW/VP2K VP2MG VP2MGG VP2MLD VP2MLD VP2MN VP2MO VP2MP VP2MP VP2MP VP2MS VP2MS VP2VA	via	WAGZEF K.4FW WBSLCH WBFDG WBJLN KYSR WBSLCH WBSLCH WBSLCH WZKF WZKF NGCEX KGRNO WO4FNN VESHJ	YB3DC YB5A50 YC1GJ YJBAIM YJBAIM YJBAKG YJBGX YJBGX YJBGX YMFEI YN10G YS1UL YS9RVE YJJBNM	via	W488P W26BX W66RHE VK.4108 JL1KDX F6GXB VK30T DJ92B VE3JDO WABJYJ WABJYJ W17FCC Z YU3TPG Z YU3TPG Z YU3TPG Z YU3TPG Z YU3TPG Z YU3TPG Z XYU3TPG Z	ZP5JCY ZP5PX ZP5DW ZS1CT ZS3HL ZY2BW ZY8B1 129A 3ABAA 3AAGB 3A2ARM 3A2EE DL1BA/3A 3B7CD	LUBDPM W3HNK N 4DW DL2MY KE1A PT2BW PYBBI W7PHO IBMWI W2GBX OH2BH F9RM DL1BA 3B6CD	SH3HS SH3UB SH3OJ SH3OM SH3RF SH3TC SH3YB YUSKI/SNB SRSATF SRBAL STSRD STSRY STSRY STSRY STSRY SW1AU	DK8MZ SM5CPC 5Z4DP VE7OM SMBEAO VE3DLV N3DLB YU3KI DK2IF WA4VDE F6IIM F6FNU IN3RZY WGKNFI	9A1C 9G1LA 9H1CE 9H1EL 9H3B 9H3CB 9H3HEIR 9J2KO 9K2BE 9K2PH 9L1FC 9L1GA DF2AL/9L		12VGZ N1AGK W2KF LA2JO W2GBX G4PPK 9H1AV G3SLN G4G1R 9M2OW WABCAE N1AGK DF2AL JA3BQE
T3BCH T3BDB T3BRN T31AT T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GB TA8CN TE2TX TE5DX TE5DG K05YF/TF	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJØOC K2UO YU3FK W2GBX N8CQ T12CF F6CXV W5SOO	TU2JD TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK U3F00 U5K0R U97 Z UA101 UKPAB UKPAB UKPBDX		AK3F F6ESH AK3F AK3F NBUS UZ1NWO UC1AWM UC1WMO UK3FAD UK5F	VP2KM K4FW/VP2K VP2MG VP2MG VP2MKY VP2MKY VP2MLD VP2MN VP2MO VP2MO VP2MP VP2MPB VP2MS Z VP2MTY VP2VA	via	WAGZEF K4FW WB2LCH WB7LJN K9F2LCH WB2LCH WB2LCH WB2LCH WZKF WZKF WZKF WZKF WZKF WZKF WZKF WZKF	YB3DC YB5A50 YC1GJ YJBAIM YJBAIM YJBDX YJBDX YJBDX YJBDX YN1FI YN1 DG YSTWL YSTWL YSTWL YSTWL YZSWFJ	via	W488P   W2GBX   W3GBKHE   VK410B   JL1KDX   F6GXB   VK30T   DJ9ZB   VE3JDO   WABJYJ   WABJYJ   WABJYJ   WABJYJ   WABJYJ   YU7BCD   Z   YU2NFJ   F	ZP5JCY ZP5PX ZP5XDW ZS1CT ZS3HL ZV2BW ZV8BI 1Z9A 3ABAA 3ABGB 3AZRM 3AZRM 3A2EE DL1BA/3A 3BBOB	LUBDPM W3HNK N4DW DL2HY KE1A PT2BW PY8BI W7PHO IBMWI W2GBX OH2BH F9RM DL1BA 386CO K5BOX	SH3HS SH3LB SH3GM SH3GM SH3GM SH3RF SH3TC SH3YB YU3K1/5NB SN3RTF SRBAL STSRD STSRD STSRD STSRD STSRY SUZUD H SW1AU	DK8MZ SM5CPC 5Z4DP VE7QM SM8EAO VE3DLV N3DLB YU3KI N6ZIF WA4VDE F6IIM F6FNU IN3RZY W6KNFI W6ZLVB	9A1C 961LA 9H1CE 9H1EL 9H3B 9H3CB 9H3CB 9H3PRIR 9J2KO 9K2BE 9K2PM 9L1FC 9L1GA PDEAL/9L F9R2AV F9R2AV		12VGZ N1AGK W2KF LA2JO W2GBX G4PPK GH1AV G3SLN G4GIR 9M2DW WABCAE N1AGK DF2AL JA3BOE G4RZQ
T3BCH T3BDB T3BRN T31AT T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GB TABCN TE2TX TE5DX TF5BG KD5YF/TF KD5YG/TF	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJØOC K2UO YU3FK W2GBX N8CQ T12CF T12CF F6CXV W5SOO AK1E	TU2JD TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK U3LKG U5F00 U5KDR U9Z UK1PAB UK2RDX UK1PAB UK2RDX UK8BBD		AK3F F6ESH AK3F NBUS UZ1NWO UC1NWO UK3LAC UK5KAA UK5KAA UK5KAA UK5KAA UK5KAA UK5KAA UK5KAA UK5KAA ULBSKW UKBAL <sup>2</sup> W7PHO <sup>2</sup> UJBJWH <sup>5</sup>	VP2KM K4FM/VP2K VP2MG VP2MIX VP2MKY VP2MLD VP2MN VP2MO VP2MOC VP2MP VP2MPB VP2MS Z VP2VA VP2VA VP2VB	via (	WAGZEF K4FW WB2LCH WB1JN KYSR WB2LCH WB2LCH WB2LCH W2KF W2KF N3CFX K3RPXC WD4FHN 1 WBDV2 W	YB3DC YB5A50 YB5A50 YC16J YJBAIM YJBAKG YJBDX YJBOX YJBOT YK1AA YN1FI YN10G YS1UL YS9RVE YJ3MN4 YJ3MN4 YJ3MN4 YZ2VC	via	W488P   W26BX   W86RHE   W4410B   JL1KDX   F65XB   VK30T   DJ92B   VE30G   VE3JDO   WABJYJ   WABJYJ   WABJYJ   WABJYJ   YU78CD ≈ YU27FG - YU27FC   ⇔	ZP5JCY ZP5PX ZP5XDW ZS1CT ZS3HL ZY2BW ZY8BI 12.9A 3A,BAA 3A,BGB 3A,2ARH 3A,2EE DL1BA/3A 3B7CD 3B8D6 302AJ	LUBDPM W3HNK N4DW DL2HY KE1A PT2BW PYBBI W7PHO IBMWI W2GBX F9RM DL1BA 3B6CD K5BDX WB3CON	SH3HS SH3UB SH3OU SH3OM SH3RF SH3YB YUSKI/SNB SN3RIF SRBAL ST5RD ST5RY Z SU7UD SW1AU SW1EJ	DK8MZ SM5CPC 5Z 4DP VE7OM SMBEAO VE3DLV N3DLB YU3KI DK2IF WA4VDE F6IIM F6FNU IN3RZY W6KNH W8ZLVB	9A1C 961 LA 961 CE 9H1 EL 9H3 B 9H3 CB 9H3 CB 9H3 CB 9K2 BE 9K2 PM 9L1 FC 9L1 GA  DF 2AL/9L H 9H2 AV 9L SH 9H2 AV 9L SH 9H2 AV 9L SH 9H2 AV 9H3 CA SH 9H6 MO		12VGZ N1AGK W2KF LA2JO W2GEX G4PPK G3SLN G4GIR 9M2DW WARCAE N1AGK DF2AL JA3BOE G4RZQ K02A
T3BCH T3BUB T3BRN T31AT T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GB TABCN TE2TX TE5DX TF5BG KD5YF/TF KD5YG/TF KE4SX/TF	W9SLT G8LGB JH1RMZ G4GED N7YL G4GED DJØOC K2UO YU3FK W2GBX N8CQ T12CF F6CXV W5SOO AK1E KE4SX	TU2JD TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK U3LKG U5F00 U5KDR U9Z U4A101 UK2RDX UK2RDX UK2RDX		AK3F F6ESH AK3F AK3F NBWD UC1MWD UC1MWD UK1MAD UK5F	VP2KM K4FW/VP2K VP2MG VP2MG VP2MKY VP2MKY VP2MN VP2MO VP2HP VP2HP VP2HP VP2HP VP2VS VP2VS VP2VS VP2VS	via (	WAGZEF K4FW WB2LCH WB5LCH WB2LCH WB2LCH WB2LCH WB2LCH WB3LCH WB5LCH WB5L	YB3DC YB5A50 YC1GJ YJBAIM YJBAIM YJBAIM YJBGX YJBGX YJBGX YHRI YN1FI YN1FI YS9RVE YS9RVE YJJWH YJJWH YZ9REJ Z21GC	via	W488P   W2GBX   W5GBRHE   VK410B   JL1KDX   F6GXB   VK30T   DJ9ZB   VE30G   VE30D   WABJYJ   WABJYJ   WABJYJ   WJ7FCD   CYUZFFC   CYUZFF	ZP5JCY ZP5PX ZP5XDW ZS1CT ZS3HL ZY2BW ZY8B1 129A 3ABAA 3ABGB 3A2ARH 3A2EE DL1BA/3A 3B7CD 3B8DG 3D2AJ 3D2BD	LUBOPM W3HNK N 40W OL2HY KE1A PT2BN W7PH0 IBMNI W2GBX OH2BH F3RM D11BA 386C0 K5B0X W83CON W83CON ZL1800	SH3HS SH3UB SH3OM SH3RF SH3TC SH3VB YUSKI/SNB SNSRFF SRBAL STSRD STSRY STSRY STSRY SH3VB SH7VB SH3VB SH7VB SH7VB SH7VB SM1VB S	DKBMZ SMSCPC 524DP VE70IM SMBEAO VE30LV N30LB NU3KI DK2IF MA4VDE F6IIM F6FNU IN3RZY M6KNFI W82LVB W82WP VE3XJ	9A1C 961 LA 961 LA 961 LE 963 B 963 CB 963 CB 963 CB 963 CB 964 C		12VGZ N1AGK W2KF LA2JO W2GBX G4PPK SH1AV G3SLN G4GIR SM2OW WARCAE N1AGC DF2AL JA3BQE G4RZQ K02A
T3BCH T3BDB T3BRN T31AT T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GB TABCN TE2TX TE5DX TF5BG KD5YF/TF KD5YG/TF	WSSLT GBLGB JHTRMZ G4GED N7YL G4GED DJØ0C K2UO YU3FK W2GBX NBCQ T12CF T12CF F6CXY W5SOO AKTE KE4SX W31VG	TUZJO TUZLE TUZH TUZH TUZH TUZH TUZH TUZH TUZH TUZH		AK3F F6ESH AK3F NBUS UZ1NWO UC1NWO UK3LAC UK5KAA UK5KAA UK5KAA UK5KAA UK5KAA UK5KAA UK5KAA UK5KAA ULBSKW UKBAL <sup>2</sup> W7PHO <sup>2</sup> UJBJWH <sup>5</sup>	VP2KM K4FW/VP2K VP2MDG VP2MDG VP2MLD VP2MN VP2MN VP2MN VP2MN VP2MN VP2MP VP2MPB VP2MS VP2MS VP2WS VP2WF VP2WS VP2WS VP2WS VP2WS VP2WS VP2WS VP2WS VP2WS	via (	WAGZEF K4FW WB2LCH WB5LCH WB2LCH WB2LCH WB2LCH WB2LCH WB3LCH WB5LCH WB5L	YB3DC YB5A50 YC1GJ YJBAIM YJBAIM YJBOX YJBOX YJBOX YJBOX YN1FI YN10G YS1UL YSSRVE YT7W -YZ2NFJ YZ2VC Z24UCC	via	W488P   W26BX   W86RHE   VK410B   JL1KDX   F6GXB   VK30T   DJ9ZB   VE3JDO   WABJYJ   YU78CD   EV3JDO   YU3TPG   FV12RFJ   FV17ECD   EV3JDO   W15BH   FV17EBH   FV17EBH   W3HNK   GSATU   EVALUATION   EV	ZP5JCY ZP5PX ZP5XDW ZS1CT ZS3HL ZY8B1 12.9A 3A,BAA 3A,BGB 3A,2ARH 3A,2	LUBOPM W3HNK W3HNK DL2MY KE1A PT28M PY8B1 W7PHO LIBMW1 W2GBX OH2BH F9RM DL1BA 3B6C0 K5BOX (WB3CON I ZL1BO ZL1BO	SH3HS SH3UB SH3OU SH3OM SH3RF SH3YB YUSKI/SNB SN3RIF SRBAL ST5RD ST5RY Z SU7UD SW1AU SW1EJ	DKBMZ SMSCPC 52 4DP VE70IN SMBEAO VE3DLV N3DLB YU3KI DK2IF MA4VDE F6IIM F6FNU IN3RZV M6KNFI WB2LVB MBZVB WB2LVB	9A1C 961 LA 961 LA 961 LE 963 B 963 CB 963 CB 963 CB 963 CB 964 C		12VGZ N1AGK W2KF LA2JO W2GEX G4PPK G3SLN G4GIR 9M2DW WARCAE N1AGK DF2AL JA3BOE G4RZQ K02A
T3#CH T3#DB T3#RN T3#AT T32AB T32AD TATAS TATMB YU3FK/TAT TA3GB TACN TE2TX TE50X TF5BG KD5YF/TF KD5YG/TF KC4SX/TF WGTBL/TF TG9VT TGSXGV	WSSLT GBLGB JHTRMZ G4GED N7YL G4GED DJBOC K2UO YU3FK W2GBX NBCQ T12CF T12CF F6CXV W5SOO AKTE K4SXA W31VG	TU2JD TU2LE TU7H TU7I TU7I TZ5CY U1NV U2ANN U2WZK U5F00 U5KDR U9Z UA101 UK1PAB UK2RDX UK1PAB UK2RDX UK1PAB UK2RDX UM1PA UM1PA UM1PA	via	AK3F F6ESH AK3F AK3F AK3F NBWO UC1AWW UC1AWW UC1AWW UK3FAD UK5FAD	VP2KM K4FW/VP2K VP2MG VP2MG VP2MKY VP2MKY VP2MKD VP2MD VP2MP VP2MP VP2MP VP2MP VP2WB VP2VEB VP2VEB VP2VEB VP2VEB VP2VEB VP2WEB VP2VEB VP2WEB VP2WEB VP2WEB VP2WEB	via (	WAGZEF K4FW WB2LCH WB5DG WB1.JN KY5R WB2LCH WB2LCH WB2LCH WB2LCH WB2KF WZKF N3CFX K3RROX W04FN VE3NJ WB0VZ WB0VZ WB0NZ WB0NZ WB9NY WGNPW G3VPW	YB3DC YB5A50 YC1GJ YJBAIM YJBAIM YJBAIM YJBOX YJBOX YJBOX YH1GI YN1GI YN1FI YN1FI YN1FI YS9RVE YS1WI YS9RVE ZS2RFJ Z21GC Z224JS ZB2CJ ZB2CJ	via	W488P W86RHE VK4108 JL1KDX F66XB VK30T UJ928 VE306 VE3JD0 WABJYJ WABJYJ WABJYJ WYU78CD YU2NFJ W7U7RCD W3HNK G3ATU G3ATU	ZP5JCY ZP5PX ZP5PXW ZS1CT ZS3HL ZY2BW ZY8BI 1Z9A 3AAAA 3AAGB 3A2ARH 3A2EE DL1BA/3A 3B7CD 3B6DG 3D2AJ 3D2BJ 3D2BJ 3D2BJ 3D2BJ 3D2BJ 3D2BJ 3D2BJ 3D2BJ 3D2BJ 3D2BJ 3D2BJ	LUBDPM W3HMX N 4DW DL2MY KE1A PT2BW PY8B1 W7PH0 IBMWI W2GBX 0H2BH F 9RM DL1BA 3B6CO K5B0X ( WB3CGN ( ZL1BD) W6REC W6REC W6REC W6RECA W6B3COM	SH3HS SH3LB SH3DJ SH3DJ SH3DJ SH3DJ SH3DM SH3RF SH3TC SH3YE SMST/F SRBAL STSRD STSRY STSRY SUZULD SMTEJ SMTEJ SMTEJ SMTEJ SMTEJ SMSDC SXSDC SXSDC	DKBMZ SMSOPC SZ4DP VE70M SMBEA0 VE3DLB YU3KI DK2IF MA4VDE F6IIM F6FNU IN3RZY WGKMFI WS2LVB VE3XJ DL2KAD JA18K W2KF	9A1C 9G1 LA 9H1CE 9H1EL 9H3B 9H3CB 9H9HHB 9J2KO 9K2BE 9K2PM 9L1FC 9L1GA 9L1GA 9L1GA 9H2DC 49M2DC 49M6NO 49M1MM 905FL 9055L		I 2VGZ N1 AGK W2KF LA2 JO W2GBX G4PPK G11 AV G3SLN M4BCAE N1 AGK DF2AL JA3BOE G4R70 K02A N7EB K4AEB
T3#CH T3#DB T3#RN T31AT T32AB T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GR TABCN TE2TX TE5DX TE5DX TE5BG KD5YF/TF KD5YG/TF KC4SV/TF KG5WT TG9XHD	W9SLT GBLGB JHTRMZ G4GED DJHOC K2UO VU3FK W2GBX NBCC T12CF T12CF F6CXV W5SOO AK1E KE4SX W31VG W31VG W31KK W31KK W31KK W31KK	TUZJO TUZLE TUZH TUZH TUZH TUZH TUZH TUZH TUZH TUZH	via	AK3F F6ESH AK3F NBUS UZ1NWO UC1AWM UC1WMO UK5KAA UK5FAD UK5KAA UA9YEW VFPHO UK7PHO UZ10WA UX1MAP UX1	VP2KM K4FW/VP2K VP2MDG VP2MDG VP2MLD VP2MN VP2MN VP2MO VP2MO VP2MP VP2MPB VP2MS VP2MS VP2WS VP2MFY VP2WB VP2MS VP3MS VP3MS VP3MS VP3MS VP3MS	via (	WAGZEF K4FW WB2LCH WB7JN WB7JN WB7JN WB7JCH WB7LCH WB7LCH WB7LCH WB2LCH WB7LCH	YB3DC YB5A50 YC1GJ YJBAIM YJBAIM YJBAIM YJBOX YJBOX YJBOX YJBOX YN1FI YN10G YS1UL YS1UL YS1UL YS1UL YS1VE YT7W YZ2NFJ YZ2NFJ Z24GC Z24JS Z82GJ Z84SZ	via	W488P W26BX WB66HE VK4108 JL1KDX F66XB VK30T DJ9ZB VE306 VE3J00 WABJYJ WABJYJ YU78CO XU28PG WT28PG WT28PG WT28PG WT28PG WT28PG WT38PX G3ATU G3ATU G3AFX G4M60 X	ZP5JCY ZP5PX ZP5XDW ZS1CT ZS3HL ZV2BW ZY8BI 1Z9A 3A/BAA 3A/BGB 3A/ZARM 3A/ZEE DL1BA/3A 3B8D6 302AJ 302DA 302DA 302DA 306AJ 306AK	LUBOPH W3HNK N4DW DL2HY KETA PT2BW PY8B1 W7PH0 LIBMWI W2GBX OH2BH F.9BH DL1BA 35BOX WB3COM ZL1BD W6REC VEGRA WB3COM G3WFF	SH3HS SH3LB SH3GM SH3GM SH3GM SH3RF SH3TC SH3YB YU3K1/5NB SN3RTF SRBAL STSRD STSRD STSRY Z SU7LD SM1EJ SM1EJ SM1EJ SM1EV SM1EV SM1CV SKSGK SYSGK SYSGK	DKBMZ SMSOPC SS40P VE70M SMBEA0 VE30LW N30LB YU3KI DK2IF MA4VDE F6IIM F6FNU INSRZY MGKMI MB2LVB MB2LVB MB2LVB DL2KAD JA18K WAKVDE	9A1C 961 LA 961 CE 961 EL 961 SE		12VGZ N1AGK W2KF LA2JO W2GBX GAPPK 9H1AV G3SLN G4GLR 9H2DW WABCA DF2AL JA3BG G4RZO K02A K02A K02A K02A K02A K02A
T3BCH T3BDB T3BRN T31AT T32AB T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GB TABCN TE2TX TE5DX TF5BG KD5YF/TF KD5YG/TF KE4SX/TF MG1B/TF TG9VT TG9XHQ T1BNE	W9SLT GBLGB JHTRMZ G4GED N7YL G4GED DJØOC K2UO VU3FK W2GBX NBCQ T12CF T12CF F6CXV W5SOO MSSOO MSTVC W3	TU2JD TU2LE TU7H TU7I TZ6CY U1NV U2ANN U2WZK U3LKG U5F00 U5K0R U9Z UA101 UKF0DX UKF0DX UKF0DX UKF0DX UKF0DX UKF0DX UKF0DX UKF0DX UKF0DX KF0TX/V2A KA2DIV/V2A KA2DIV/V2A	via	AKSF F6ESH AKSF AKSF AKSF AKSF AKSF AKSF AKSF AKSF	VP2KM K4FW/VP2K VP2MG VP3MG	via (	WAGZEF K4FW W82LCH W6FDG W81IN KY5R W82LCH W82LCH W82LCH W82LCH W72KF N3CFX K3RKX W72KF N3CFX K3RKX W74FHN VESMJ W8DVZ W8DTTY W3HKK G3VFW G3VFW G3VFW G3VFW GW4GR CW4GR	YB3DC YB5A50 YC1GJ YJBAIM YJBAIM YJBAIM YJBOX YJBOX YJBOX YJBOX YJBOX YJBOX YN1FI YN1OG YSTUL YSSRVE YTTYW YZZNFJ Z21GC Z21GC Z22GS ZB2CJ ZB2CJ ZB2CJ ZB2CJ ZB2CJ ZB2CJ		W488P   W26BX   W868HE   VK4108   JL1KDX   F66XB   VK30T   DJ9ZB   VE3JDO   WABJYJ   YU78CO   ZYU37FG   W712FG   W712FG	ZP5JCY ZP5PX ZP5XDW ZS1CT ZS3HL ZY2BW ZY8BI 12.9A 3A,BAA 3A,BGB 3A,2ARH 3A,2EE DL1BA/3A 3B7CD 3B8D6 302AJ 302BD 302DA 302DX 306AJ 306AL	LUBOPH W3HNK N40W DL2HY KETA PT2BW PYBBJ W7PHD JBMWD JBWWD JBWW JBWW	5H3HS 5H3LB 5H30LI 5H30M 5H3RF 5H3TC 5H3YB YUSKI/5NB 5N3RTF 5RBAL 5T5R0 5T5RY 25 5U7LD 45 5H1EJ 5H1EJ 5H1EJ 5M1EJ 5X5DC 5X5GK 574CV 5Z4CS 5Z4CV	DKBMZ SMSCPC SZ40P VE70M SMBEAO VE30LV VE30LV N30LB YU3KI OK21F MA4VDE F6IIM F6FNU IN3RZY M6KNFI WBLVBA WBLVBA UZSMP VE3XJ DLYKAD JA1BK WZKF WA4VDE	9A1C 961LA 961CE 961LA 961CE 961EL 9613B 963CB 963EP 962PM 961FC 962PM 961FC 962PM 964PM 9	.1	12VGZ N1AGK W2KF LA2JO W2GBK GAPPK 9H1AV G3SLN G4GLR 9M2DW WABCAE DF2AL JA3BBG G4RZO K02A K02A K02A K02A K02A K0EA K4AEB ONSHT K1VSK F3LQ
T3#CH T3#DB T3#RN T3#AT T32AB T32AD TA1AS TA1MB YU3FK/TA1 TA3GB TABCN TE2TX TE50X TE50X TE58G KD5YF/TF KD5YG/TF KD5YG/TF WSTB/TF TG9VT TG9XCV TG9XHD TLEW Via	WSSLT GBLGB JHTRMZ GAGED N7YL GAGED DJBOC K2UO YU3FK WSGBX NBCQ T12CF F6CXV WSSOO AKTE KE4SX WG1VG JUGHK K4CLA JA4FGD 2 T12VR 6	TU2JD TU2LE TU7H TU7I TU7I TU5CY U1NV U2ANN U2WZK U3LKG U5F00 U5KDR U9Z UA101 UK1PAB UK2PADX UK1PAB UK1P	via	AK3F F6ESH AK3F AK3F AK3F AK3F NB UC1AWW UC1WWO UC1AWW UC1WWO UK5FAD UK5	VP2KM K4FW/VP2K VP2MG VP2MDG VP2MNX VP2MKY VP2MND VP2MO VP2MO VP2MP VP2MPB VP2MSS VP2WS VP2VEB VP2VEB VP2VEB VP2VEB VP2WS VP2WS VP2WS VP2WS VP2WS VP2WS VP2WS VP2WS VP2WS VP3WS VP3WS VP3WS VP3WS VP3WS VP3WS VP3WS VP3WS VP3WS	via (	WAGZEF K4FW WB2LCH WGFDG WB1.IN KY5R WB2LCH WB2LCH WB2LCH WRYLCH WRYKF WZKF WZKF WZKF WZKF WZKF WZKF WZKF WZ	YB3DC YB5A50 YC1GJ YJBAAG YJBAAG YJBAX YJBOX YJBOX YJBOX YJBOX YN1FI YN10G YS1UL YS9RVE YT7W YZ2NFJ YZ2VC Z24ZVC Z26ZCZ Z07CW ZDBKM	via	W488P W868HE W868HE VK4108 JL1KDX F66XB VK30T DJ9ZB VE30G VE30G VE31D0 WAMJYJ GAMGU K3HNK GAMGU K4CID CS31FB	ZP5JCY ZP5PX ZP5PX ZP5XDW ZS1CT ZS3HL ZY2BW ZY8BI 129A 3AAAA 3A4GB 3A2ARN 3A2EE DL1BA/3A 3B7CD 3B8DG 302AJ 302BD 302OA 302OA 302OA 306AL 306AL 306AL	LUBDPM W3HMX N 4DW DL2MY KE1A PT2BW PY8B1 W7PH0 H2BM LBMWI W2GBX OH2BH F 9RM DL1BA 3B6CO K5BOX WB3CON Z11BO WGREC VB3CON G3WPF G3WPF G3WPF WB3CON K5BOAT WB3CON	5H3HS 5H3LB 5H3GJ 5H3GJ 5H3GJ 5H3GJ 5H3GM 5H3RF 5H3TC 5H3YB 7U3K1/5NB 5T5RD 5T5RD 5T5RD 5T5RD 5T5RY 2 5U7LD 4 5W1GZ 5W1EJ 5W1EJ 5X5GK 5X4GK 5X4GK 5X4GCV 5Z4CCV 5Z4CCV 5Z4CCV 5Z4CE 5Z4CEV 128	DKBMZ SMSCPC SZ40P VE7OM SMBEAO VE3DLW N3DLB YU3KLI DK2IF MA4VDE F6IIM MFKNFI WBKNFI WBZLVB MWBKNFI KBA4VDE WZKF WA4VDE	9A1C 961 LA 9611CE 961 EL 9613B 9636B 9636B 9636B 9626B 9626B 9626B 9626B 96660 9116A 96660 96660 96660 96660 96660 96660 96660 96660 96660 96660 96660 96660 96660 96660 96660 96660 96660		12VGZ N1AGK W2KF LA2JO W2GBX G4PPK 9H1AV G3SLN MABCAE N1AGK DF2AL JA3BOE G4RZO K02A N7EB K4AEB ONISHT K1VSK F3LO ONISHT
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T3#CH T3#DB T3#RN T3#AT T32AB T32AD T34AS T32AD TA1AS TA1MB YU3FK/TA1 TA3GB TA8CN TE2TX TE5DX TE5DG KD5YF/TF KD5YG/TF KG5YG/TF KG5YG/TF KG3KV/TF W3TB/TF TG9XT TG9XT TG9XHO TI#HE T12HI KD4LI/T12 KA4EIN/T14 T15HRS T19GF T19J TJ1AF TJ10S TKSVN	W9SLT G8LGB JHTRMZ G4GED JHTRMZ G4GED DJBOC K2UO TU3FK M2GBX NBCO T12CF F6CXV W5SOO AK1E K4SXA M31VG W3HNK K4CLA JA4FGD T12VVF W2GBX T12VVF M2GBX M2GBX T12VVF M2GBX T12VVF M2GBX M2GB	TU2JD TU2LE TU7H TU7I TU7I TU7I TU5CY U1NV U2ANN U2WZK U3F00 U5KDR U9Z UA101 U9Z UK1PAB UK2PDX UK1PAB UK1PA	via	AK3F F6ESH AK3F AK3F AK3F AK3F ND UC1AWW UC1AWW UC1WW UC1WW UC1WW UK5FAD UK5KAD	VP2KM K4FW/VP2K VP2MG VP2MDG VP2MDG VP2MN VP2MN VP2MN VP2MN VP2MP VP2MP VP2MS VP2KS VP3KS	via (	WAGZEF K4FW WB2LCH WB5DG WB1.IN KY5R WB2LCH WB2LCH WB2LCH WB2LCH WB2KF WZKF WZKF WZKF WZKF WZKF WZKF WZKF WZ	YB3DC YB5A50 YC1GJ YJEAIM YJEAIM YJEAIM YJEGX YJEGX YJEGX YJEGX YJEGX YJEGX YJEGX YJEGX YJEGX YH1GG YS1UL YS9RVE YTYW YZ2NFJ YZ2VC Z2TYW Z21CC Z24JS Z26ZJ Z27CW Z26BCC Z26ZC Z27CW Z26BCC Z27CW Z		W488P W26BX W868HE VK4108 JL1KDX F66XB VK30T DJ92B VE30G VE3JDO WABJYJ WABJYJ WABJYJ WABJYJ WABJYJ WABJYJ KATOE CSAFX GAMGO XATOE CSAFX GAMGO XATOE CSAFX W4FRU W4FRU W4FRU WAFRU WA	ZP5JCY ZP5PX ZP5PX ZP5PX ZP5XDW ZS1CT ZS3HL ZY2BW ZY8BI 129A 3A#AA 3A#GB 3A2AB 3A2EE DL1BA/3A 3BFCD 3B6D6 302AJ 302DA 302DA 302DA 306AL 306AU 44AU 44AU 44AU 44AU 44AU 44AU 44AU 4	LUBDPM W3HNK N4DW DL2HY KE1A PT2BW PY8BJ W7PH0 L1BMW1 W2GBX OH2BH E5BH DL1BA 3B6CD K5BDX WB3CON L1L1BA 3B6CD W6REC V6BA WB3CON G3WPF WB3CON C3WPF UE6AZ L1BD L1ARI L1BA L1BA L1BA L1BA L1BA L1BA L1BA L1BA	5H3HS 5H3LB 5H3GJ 5H3GM 5H3GM 5H3GF 5H3TC 5H3TC 5H3TF 5H3TC 5H3TF 5RBAL 5T5RD	DKBMZ SMSCPC SZ40P VE70M SMBEAD VE30LB YU3KI DK2IF MA4VDE F6IIM F6FMU IN3RZY MW6KMF WB2LVB MW5KMF WB2LVB MW5KMF WB2LVB MW5KMF KA4SS G4AJP GBR0H YU3TU N4IPT SM3CXS KA3DSW IZYAF DJ3AF	9A1C 9B1LA 9B1CE 9B1EL 9B13B 9B19BER 9B19BER 9B19BER 9B1BER 9B1BE	.1	12VGZ N1AGK W2KF LA2JO W2GBC GAPPK SH1AV G3SLN G4GLR SH2DW NABCAC DF2AL JA3BOC K02A K02A K02A K02A K02A K02A K02A K02A
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# FIRST CLASS MAIL

George Morris, WAABW 2106 Earnslow Drive La Canada, CA 91011







#### CONTEST continued from page 1

little trouble in prioritizing station improvements and getting timely feedback on the changes he has made.

One more important benefit must be mentioned: contesting is just plain fun. You need not spend a grueling 48 hours if you don't want to. Your activity can be limited to a daytime or a nightime band in many contests, allowing you to get some sleep or appease the family while still being competitive. Most contests have multi-operator entry categories; you can enjoy the comradery of team competition, let others do some (or, if you prefer,

most) of the operating and get help with the log-duping and QSLing chores. By the way, there are even outside computer services you can hire to handle some of the paperwork for a nominal fee.

Getting interested? Good! Future articles will deal with such matters as: 1) how operators and stations can be matched up for mutual benefit; 2) how the SCDXC repeater can be used, legally, to boost contest scores; and 3) why certain hams in the northern reaches of our state think we in Southern California are hopelessly incapable of working together and what we can do about it. Stay tuned!

#### QSL MANAGER INFORMATION INSERT

Several members have written and asked the editor to publish DX station OSL manager information. It seems like the Bulletin always fills up before the QSL information finds a place. So, this month I am including a recent list of QSL manager information courtesy of The Long Island DX Bulletin. This QSL information is included as an insert because, as usual, the space ran out before the material did — even though the small type is being used. I hope some find this information useful.